

CLAIMS

1.- Machinery for the recovery of forest, agricultural and/or urban waste, characterized by consisting of a single body metallic chassis (1), assembled on a mobile work base which consists of:

- Recovery and feed equipment, using hydraulic loading arm-claw (2).
- Feed hopper (3) with one or several fold-down side hatches (4) operated hydraulically (4')
- Cutting (5) and counter cutting (5') equipment located in the upper part of the machine chassis, as well as in the upper part of the pressing plate. (6)
- Equipment for the compaction and pressing of the wood materials made up of:
 1. Pressing plate (6).
 2. Braking tunnel (8).
 3. Piston (9).
- Equipment for the tying and baling of the bales or geometric shapes taken on by the plant materials in the compaction process, consisting of:
 1. Folding frame or guide (11).
 2. Baling wire (12).
 3. Body of needles (13).
- Mechanical equipment for the movement of the machine (internal combustion or combustion engine).
- Hydraulic equipment (pumps or pump section).
- Electrical equipment (power plant or generator).

2.- Machinery for the recovery of forest, agricultural and/or urban waste in accordance with claim number one, characterized by cutting up wood waste of various non-homogenous kinds and trunk sections with a diameter of up to and over 30 centimetres.

3.- Machinery for the recovery of forest, agricultural and/or urban waste, according to claims 1 and 2, characterized by being made up of a compacting system applying adequate hydraulic pressure to achieve sufficient uniformity and density to transform the material into transportable units in geometric shapes (bales).

4.- Machinery for the recovery of forest, agricultural and/or urban waste, according to claims 1 and 2 characterized by subjecting said waste to processing from which geometric shapes (bales) are obtained with an approximate density

of between 0.6 and 0.7 tonnes per cubic metre and adaptable and variable measurements as regards length, height and width situated in the following ranges:

Length: Between 40 and 280 centimetres.

Height: Between 40 and 150 centimetres.

Width: Between 50 and 120 centimetres.

- 5.- Machinery for the recovery of forest, agricultural and/or urban waste, according to that established in the above claims, characterized by the substitution of the concept of elimination of forest, agricultural or urban wood and plant waste, with that of cost-effective recovery of the same, achieving the incorporation into the industrial chain of raw materials obtained indirectly, without damaging the ecosystem.
- 6.- Machinery for the recovery of forest, agricultural and/or urban waste, according to the above claims, characterized by being equipped with means of self propulsion such as wheels, caterpillar chains or any other appropriate means for its movement in agricultural or forest areas.
- 7.- Machinery for the recovery of forest, agricultural and/or urban waste, according to the above claims, characterized by consisting of a compact and self-propelled body with a system for the collection of wood waste and feeding of the hopper operated by means of rollers equipped with claws and conveyor belts.
- 8.- Machinery for the recovery of forest, agricultural and/or urban waste, according to claim number 7, characterized by the fact that the cutting equipment is connected to the rollers and conveyor belts of the system for the feed and collection of the wood waste.
- 9.- Machinery for the recovery of forest, agricultural and/or urban waste, according to claims 7 and 8, characterized by the frame or guide being fixed and straight, with a body of needles which is also straight.
- 10.- Machinery for the recovery of forest, agricultural and/or urban waste, according to claims 7 and 8, characterized because the frame is curved and is split into two fixed sections on both sides of the machine body and two bodies of needles which are also curved.
- 11.- Machinery for the recovery of forest, agricultural and/or urban waste, according to claims 7 and 8, characterized because the frame is split into two fixed sections on both sides of the machine body and is straight, the body of needles also being straight.